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FUEL CELL WITH A DEVICE FOR STORING WATER

ABSTRACT OF THE DISCLOSURE

5 A fuel cell system with flow passages and/or flow chambers
which conduct moist gases in operation is characterized in that at least a part
of the flow passages and/or flow chambers is provided with a coating which
takes up water in distributed form at low temperatures and releases the water
again at least in part at higher temperatures. This coating makes it possible
to operate the fuel cell system at pronounced temperatures below zero, such
as, for example, -40°C, and to ensure an adequate humidification of the
operating gases, which protects the membranes from damage and favors a
10 faster starting up of the fuel cell system.

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